



Thursday, April 15, 2021

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NPDES APRIL 2021
SDG ID: GCH94579
Sample ID#s: CH94579

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 15, 2021

SDG I.D.: GCH94579

Project ID: NPDES APRIL 2021

Client Id	Lab Id	Matrix
EFFLUENT	CH94579	WASTE WATER



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Analysis Report

April 15, 2021

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G12043

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/07/21
04/07/21

Time

7:00
16:40

Laboratory Data

SDG ID: GCH94579
Phoenix ID: CH94579

Project ID: NPDES APRIL 2021
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.028	0.003	mg/L	1	04/09/21	CPP	E200.7
B.O.D./5 day	4.5	4.0	mg/L	2	04/07/21 16:40	RVM/LJ	SM 5210B-11
B.O.D./5 day End Incubation					04/12/21 13:19	RVM/LJ	SM 5210B-11
C.O.D.	186	10	mg/L	1	04/09/21	QH	SM 5220D-11
Ammonia as Nitrogen	2.10	1.00	mg/L	20	04/14/21	KDB	E350.1
Nitrite-N	0.803	0.100	mg/L	10	04/07/21 22:08	TB	E353.2
Nitrate-N	9.40	0.20	mg/L	10	04/07/21 22:08	TB	E353.2
Nitrogen Tot Kjeldahl	12.7	2.00	mg/L	20	04/14/21	KDB	E351.1
Total Nitrogen	22.9	0.10	mg/L	1	04/14/21	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	4.19	0.050	mg/L	5	04/09/21	JR	SM4500PE-11
Total Suspended Solids	8.0	5.0	mg/L	1	04/08/21	ARG	SM 2540D-11
Total Metals Digestion	Completed				04/08/21	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

April 15, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

April 15, 2021

QA/QC Data

SDG I.D.: GCH94579

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 570216 (mg/L), QC Sample No: CH94921 (CH94579)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	3.44	3.56	3.40	103	104	1.0	NC			80 - 120	20
Comment:													
Additional: LCS acceptance range is 80-120% MS acceptance range 75-125%.													



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QA/QC Report

April 15, 2021


QA/QC Data

SDG I.D.: GCH94579

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 570062 (mg/L), QC Sample No: CH94124 (CH94579)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	84.0			81.8			70 - 130	20
B.O.D./5 day GGA BOD						92.7						84 - 115	20
QA/QC Batch 570181 (mg/L), QC Sample No: CH94449 (CH94579)													
Total Suspended Solids	BRL	2.5	<3.3	<3.3	NC	96.0						85 - 115	
QA/QC Batch 570336 (mg/L), QC Sample No: CH94723 (CH94579)													
Phosphorus, as P	BRL	0.01	2.54	2.60	2.30	95.8			90.7			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 570385 (mg/L), QC Sample No: CH94792 (CH94579)													
C.O.D.	BRL	10	12	<10	NC	94.8			102			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 570100 (mg/L), QC Sample No: CH94550 (CH94579)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	95.5			93.4			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	0.01	NC	102			106			90 - 110	20
QA/QC Batch 570772 (mg/L), QC Sample No: CH94307 (CH94579)													
Ammonia as Nitrogen	BRL	0.05	19.0	20.6	8.10	92.0			99.5			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	30.3	32.6	7.30	104			104			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
April 15, 2021

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Criteria: None

State: MA

Sample Criteria Exceedances Report

GCH94579 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

April 15, 2021

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

